ST. CROIX COUNTY GOVERNMENT CENTER ELECTRICAL UPGRADE

HUDSON, WISCONSIN

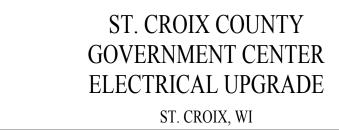
ELECTRICAL DESIGN NOVEMBER, 2015

ELECTRICAL ABBREVIATIONS	ELECTRICAL SYMBOL SCHEDULE	GENERAL ELECTRICAL PLAN NOTES	GENERAL POWER NOTES	LOCATION
A or AMP AMPERE AB ABOVE BACKSPLASH AC ABOVE COUNTER AFF ABOVE FINISHED FLOOR ATS AUTOMATIC TRANSFER SWITCH	SYMBOL DESCRIPTION MTG. HEIGHT GENERAL	A. INSTALL ELECTRICAL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, STATE, COUNTY, MUNICIPAL AND FEDERAL LAWS OR ORDINANCES GOVERNING THE PROJECT. IF THE PLANS AND SPECIFICATIONS ARE IN DIRECT CONFLICT WITH SUCH CODES, LAWS OR ORDINANCES NOTIFY THE ENGINEER OF CONFLICTS IN WRITING PRIOR TO MAKING CHANGES FROM PLANS AND/OR SPECIFICATIONS. WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN.	 A. COORDINATE LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, ETC. WITH ARCHITECTURAL PLANS, ELEVATION AND DETAILS PRIOR TO START OF WORK, REQUEST CLARIFICATIONS FROM ARCHITECT PRIOR TO INSTALLATION. B. RECEPTACLES WITHIN 6'-0" OF WATER SOURCE SHALL BE A GFI RECEPTACLE. 	
C CONDUIT CCTV CLOSED CIRCUIT CAMERATV CU COPPER DS DISCONNECT EC ELECTRICAL CONTRACTOR EMERG EMERGENCY EXIST EXISTING FA FIRE ALARM FLA FULL LOAD AMP GC GENERAL CONTRACTOR GFI GROUND FAULT INTERRUPTER GRD or G GROUND HP HORSEPOWER J-BOX JUNCTION BOX KV KILOVOLT KVA KILOVOLT KVA KILOVOLT-AMPERE KW KILOWATT LTG LIGHTING MCS MOLDED CASE SWITCH MECH MECHANICAL MTR MOTOR MTS MANUAL TRANSFER SWITCH NEC NATIONAL ELECTRICAL CODE NL NIGHT LIGHT PNL PANEL RCPT RECEPTACLE RM ROOM TEL TELEPHONE TYP TYPICAL UNO UNLESS NOTED OTHERWISE V VOLT W WATT WP WEATHERPROOF W/W WITH W/O WITHOUT XFMR TRANSFORMER	SHEET NUMBER SHEET NUMBER	B. BRANCH CIRCUIT CONDUITS, JUNCTION BOXES AND CONNECTIONS ARE NOT SHOWN, PROVIDE COMPLETE RACEWAY SYSTEM AND CONDUCTORS AS REQUIRED FOR THE INDICATED CIRCUITRY. C. HOMERINN CIRCUITS TO BE 2412, 14126, 34. C TO 2014 P CIRCUIT BREAKER IN DESIGNATED PANEL, UNLESS NOTED OTHERWISE. THE NUMBERS SHOWN AT EACH DEVICE-HOMERIUN REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. D. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS-CIRCUITS SHALL BE CONTINUOUS FOR ENTIRE LENGTH, UNLESS NOTED OTHERWISE. E. A MAXIMUM OF THEE CIRCUITS SHALL BE INSTALLED IN A CONDUIT. F. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT, MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED. EACH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL CONDUCTORS SHALL NOT BE SHARED. G. INSTALL WIRING (CONDUITS, ETC) CONCEALED. SURFACE WIRING SHALL ONLY BE INSTALLED ON CONCRETE BLOCK WALLS, UNLESS NOTED OTHERWISE. H. WIRING ABOVE CEILING THAT IS NOT IN CONDUIT AND LOCATED IN AN AIR HANDLING PLENUM SHALL BE PLENUM RATED. REFER TO MECHANICAL PLANS FOR PLENUM AREAS. I. DO NOT INSTALL ELECTRICAL EQUIPMENT THAT PHYSICALLY INTERFERES WITH SERVICING OF MECHANICAL EQUIPMENT. J. ELECTRICAL CONDUITS, WIRING, BOXES, ETC. SHALL NOT PENETRATE STAIR ENCLOSURE UNLESS THEY ARE FEEDING DEVICES LOCATED WITHIN THE STAIR ENCLOSURE. K. PROVIDE CLECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES, OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND UN CONDITIONED SPACES. L. PROVIDE UNIVERSAL BLANK PLUGS ON SPARE CONDUITS EQUAL TO CARLON MARPS. SERIES. M. SEAL CONDUITS AT THE LAST STRUCTURE PRIOR TO CONDUITS ENTERING A BUILDING WIND WHERE CONDUITS ENTER A BUILDING WITH CARLON. MATOR MAY SERIES ONE DOUBLING HERD ON THE OTHER PROVIDED ON THE OTHER PROVIDED FOR PROVI	C. DO NOT INSTALL OUTLETS BACK TO BACK, PROVIDE MINIMUM 24 INCH HORIZONTAL SPACING IN FIRE RATED WALLS. MOUNT LOW VOLTAGE AND POWER OUTLETS IN DIFFERENT STUD WALL CAVITIES. D. WHEN THE COMENING OF CIRCUITS OR HOMERLING IS PERMITTED ELSEWHERE IN THE DOCUMENTS, RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE OFFICIAL VINIDIOATED. CONDUCTORS MUST BE DEFARED PERT THE MATIONAL ELECTRICAL CODE WHEN MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY. E. PROVIDE NYLON PULL STRING IN EMPTY CONDUCT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING. F. COORDINATE LOCATION OF JUNCTION BOX FOR EQUIPMENT WHICH IS FURNISHED BY OWNER OR OTHERS WITH THE EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. PROVIDE WIRING FROM JUNCTION BOX TO EQUIPMENT CONNECTION AS REQUIRED. G. WIRING INDICATED BY CIRCUIT NUMBERS SYMBOL SHALL INCLUDE A NEUTRAL WHEN THE LOAD SERVED HAS PROVISIONS FOR, OR REQUIRES A NEUTRAL TYPICALLY FEEDERS AND BRANCH CIRCUITS WILL REQUIRE A NEUTRAL EXCEPT MOST MOTOR CIRCUITS. H. ARC-FAULT CIRCUIT PROTECTION SHALL BE INSTALLED PER NEC REQUIREMENTS.	Countries Country Services Co
	5. REFER TO CONSTRUCTION DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.	GENERAL FLECTRICAL DEMOLITION NOTES A. DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO INDICATE ALL DEVICES OR CONDITIONS ASSOCIATED WITH DEMOLITION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FELD VERIFY ACTUAL CONDITIONS INVOLVED IN THE DEMOLITION AND SUBSECUENT RECONSTRUCTION REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION. B. CIRCUIT CONTINUITY SHALL BE MAINTAINED TO ELECTRICAL HIGHTING, DEVICES, AND EQUIRMENT REMAINING IN, BUT AFFECTED BY DEMOLITION. FIELD VERIFICATION OF BRANCH CIRCUIT CONTRICUIT CONTRICUIT CONTROLLY CANTROLLY CONTRACTOR. C. IN AREAS OF DEMOLITION, REMOVE ASSOCIATED JUNCTION BOXES, SUPPORTS, CONDUIT AND WIRRING TO THE POINT OF ORIGIN FOR LIGHTING, DEVICES AND EQUIRMENT NOT BERNOY EXCHAED BY DEMOLITION OF RECEPTACLES THAT WILL REMAIN AFTER DEMOLITION OR REQUIRE POWER DURING DIRING DIRICIDS BUT MAINTAIN POWER TO EQUIPMENT AND RECEPTACLES THAT WILL REMAIN AFTER DEMOLITION OR REQUIRE POWER DURING DEVICES THAT ARE TO REMAIN AND ARE SHOWN FOR REFERENCE ONLY. F. WALLS, CEILINGS, AND GENERAL MATERIALS TO BE REMOVED BY ELECTRICAL CONTRACTOR. DIVISION 28 TO REMOVE ELECTRICAL ELUMINAIRES, DEVICES, AND EQUIRMENT PRIOR TO REMOVAL OF WALLS, AND EQUIRMENT PRIOR TO REMOVAL OF WALLS AND CELLINGS, RELECANTE SYSTEMS AS INDICATE DO NO RAWINGS OR AS REQUIRED FOR INSTALLATION OF NEW WALLS OR CELLINGS, COORDINATE WITH THE VARIOUS AREAS OF CONSTRUCTION. G. ELEVATIONS ON DRAWINGS ARE APPROXIMATE ELEVATIONS, FIELD VERIFY LOCATION OF ELECTRICAL TIMES IN THE VARIOUS AREAS OF CONSTRUCTION. G. ELEVATIONS ON DRAWINGS ARE APPROXIMATE ELEVATIONS, FIELD VERIFY LOCATION OF ELECTRICAL TIMES BEFORE DEMOLITION AND INSTALLATION OF NEW OR RECOCATED COORDINATE WITH EXPRINGUIS AREAS OF CONSTRUCTION. H. EXISTING CONDUIT INSTALLED IN CONCRETE FLOOR OR WALLS THAT ARE NOT BEING BEING PRIOR PROVIDE AND PRIVATE OR P	THE UPGRADE OF THE EXISTING ELECTRICAL SYSTEM AT THE ST CROIX COUNTY COVERNMENT CENTER IS EXPECTED TO OCCUR WITHIN AN OPERATING FACILITY AND PRESENT MINIMAIN DISRUPTION TO THE DAIL O'PERATION. IN ORDER FOR THIS TO OCCUR, IT IS INCCESSARY TO LINGERSTAND THE CONTROL OF THE STAND THE CONTROL OF THE PROCESS AS PICE THE PROCESS AND THE CONTROL OF THE ESTAND STAND THE STAND STAND THE CONTROL OF THE ESTAND STAND THE CONTROL OF THE ESTAND STAND THE CONTROL OF THE ESTAND STAND TO INSTAND THE CONTROL OF THE ESTAND STAND THE ESTAND STAND THE ESTAND THE ESTAND STAND THE ESTAND STA	ELECTRICAL DRAWING INDEX REV # SHEET # SHEET DESCRIPTION



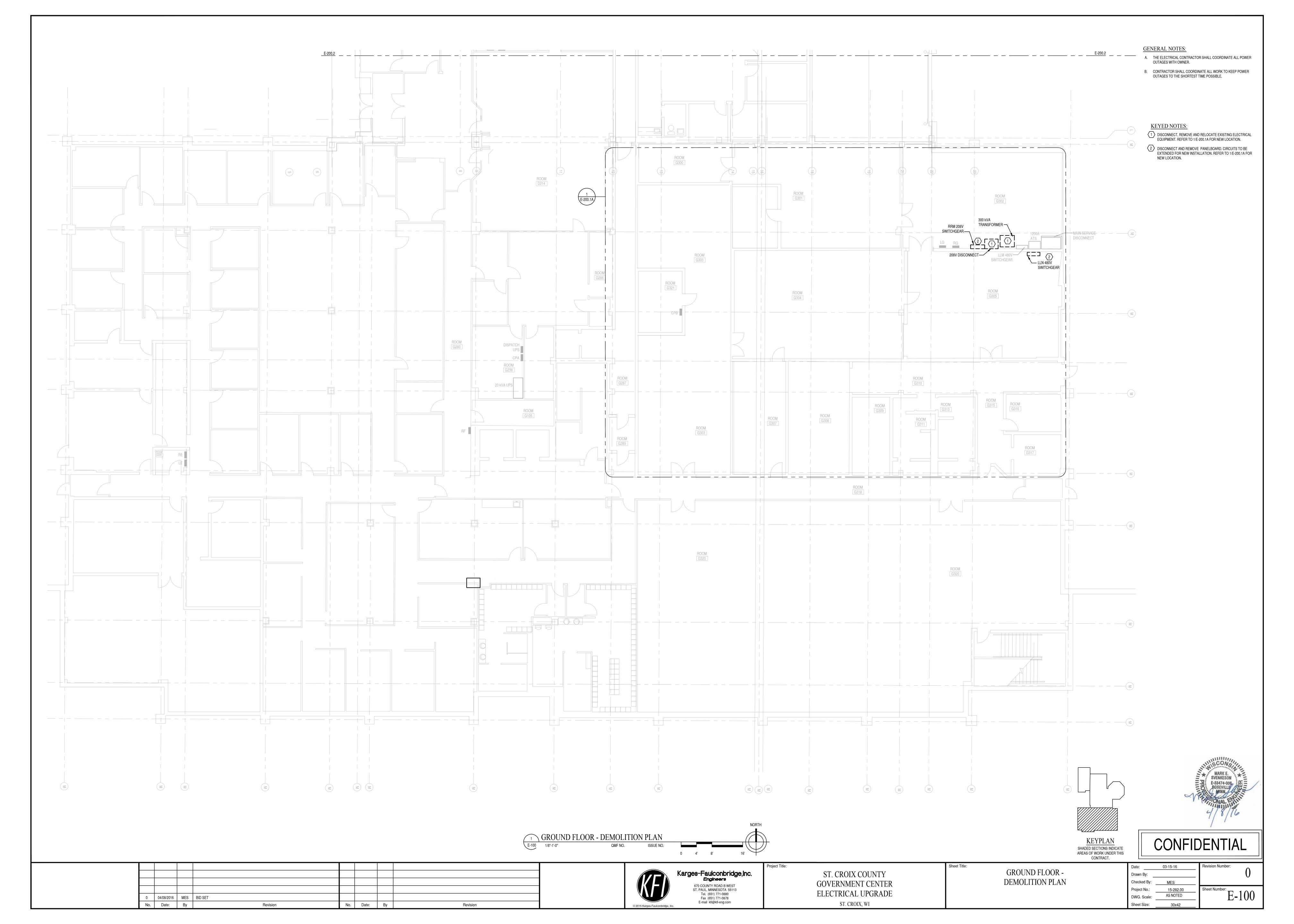
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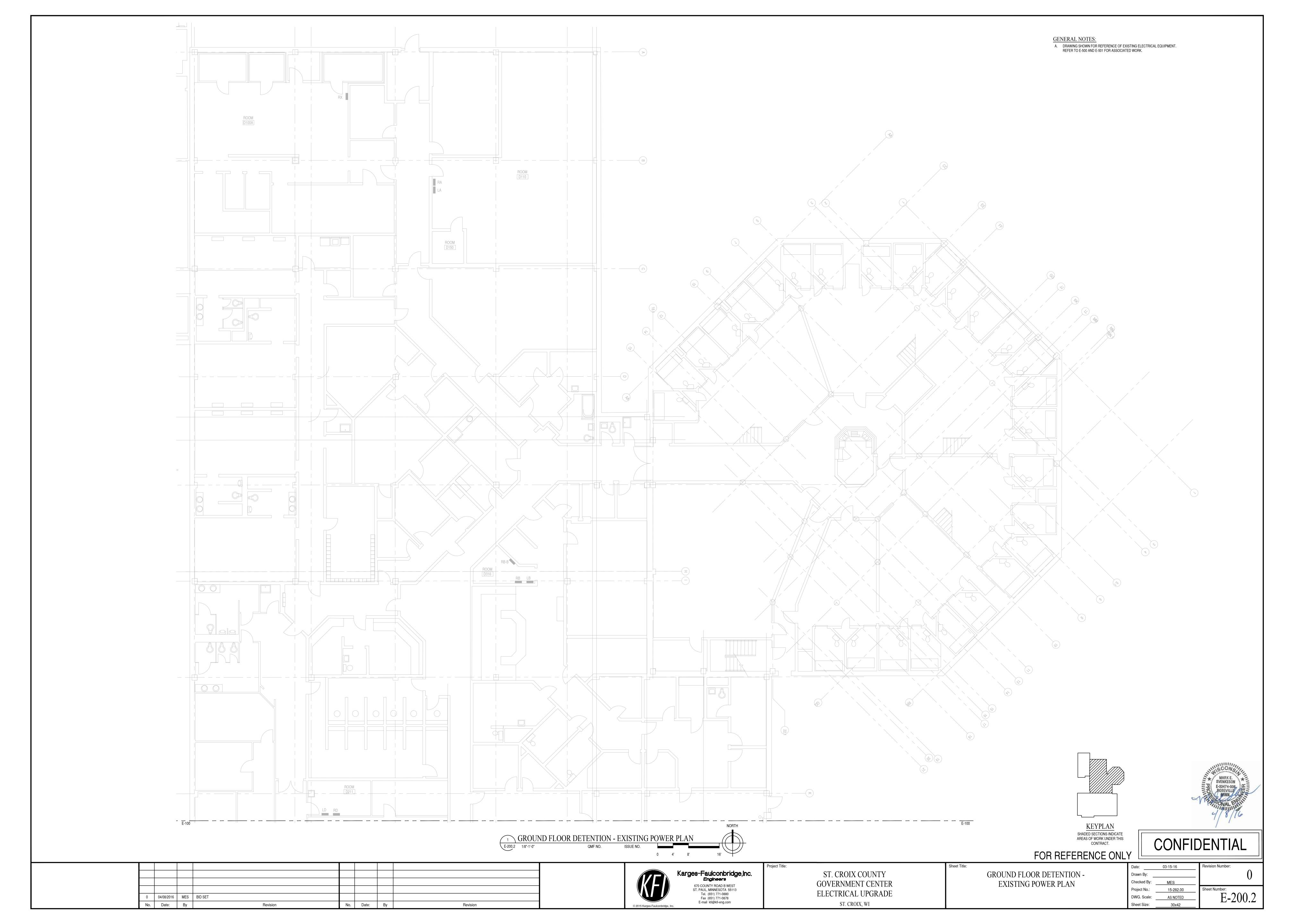


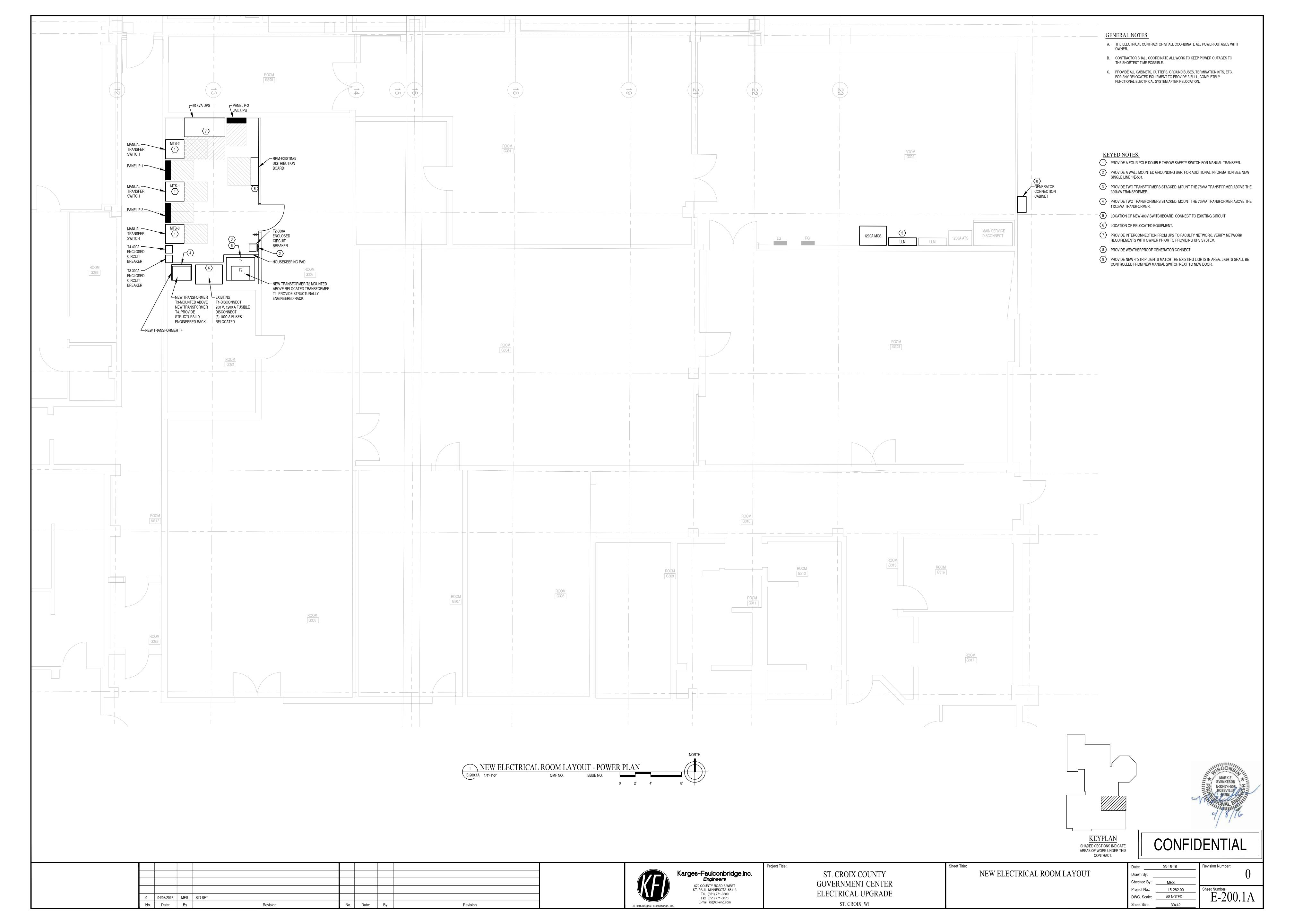


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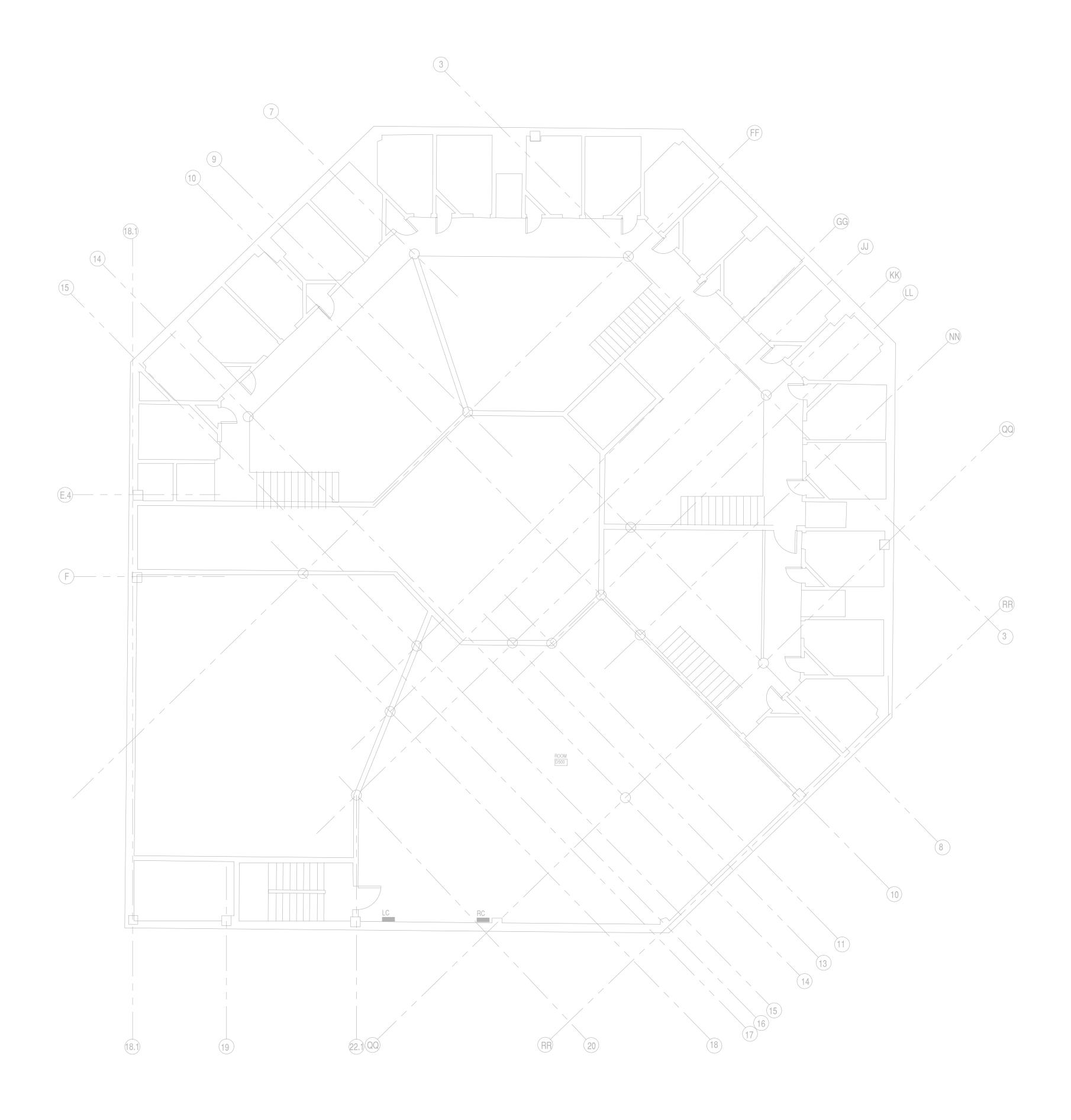
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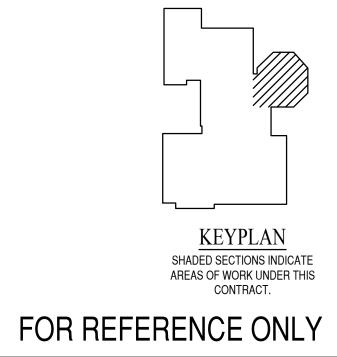
















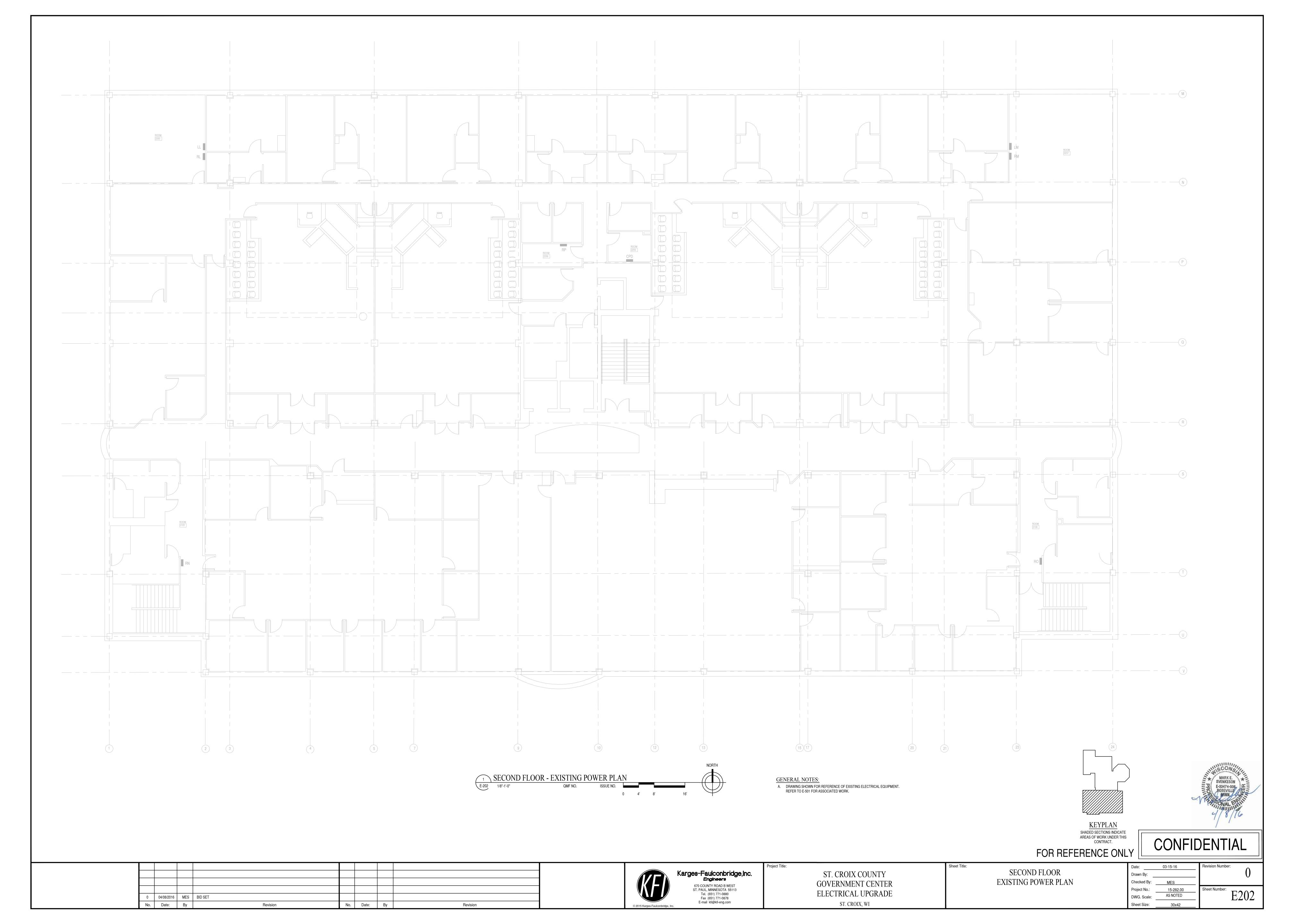
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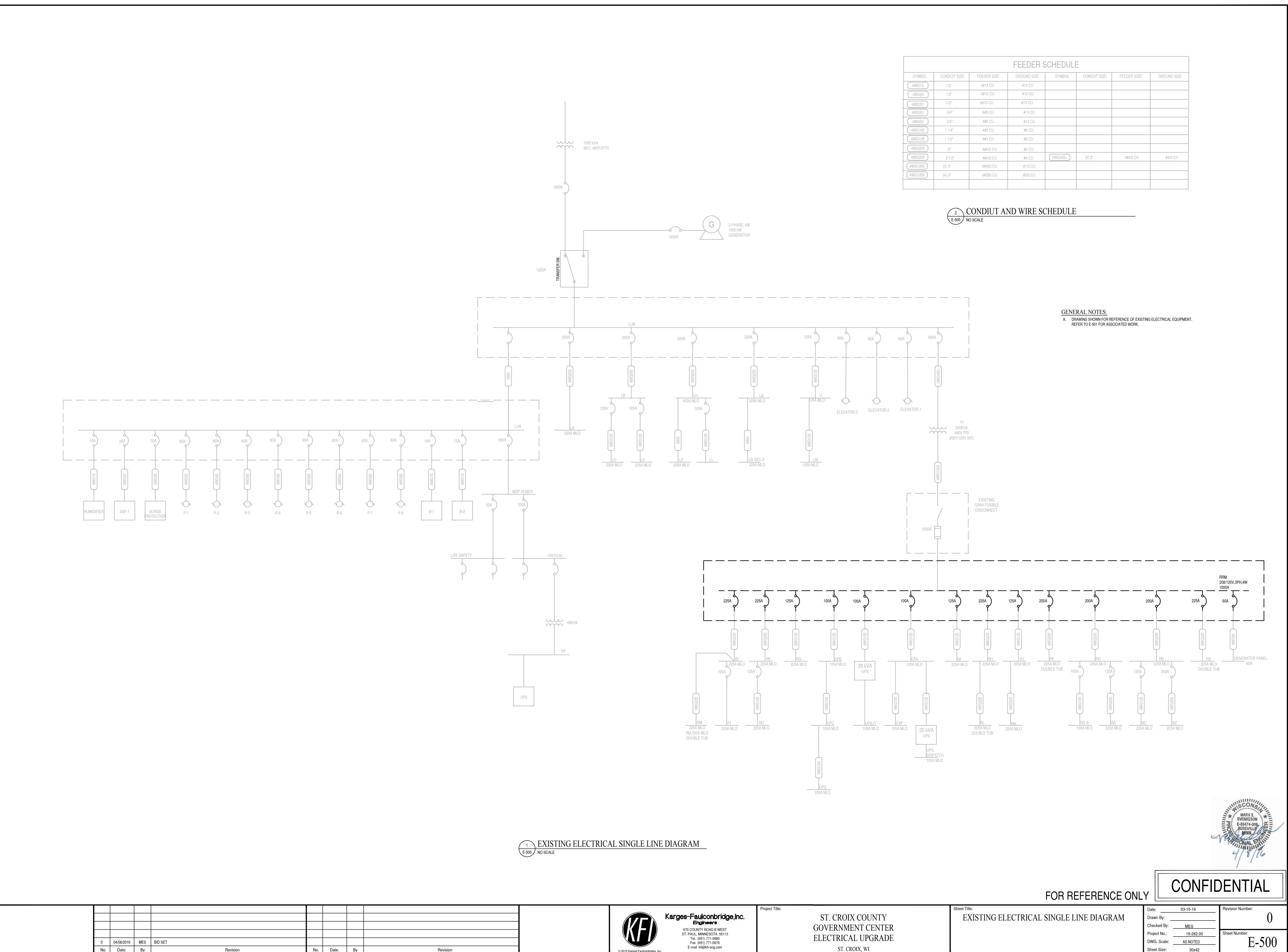


ST. CROIX COUNTY
GOVERNMENT CENTER
ELECTRICAL UPGRADE
ST. CROIX, WI

FIRST FLOOR MECHANICAL ROOM	V
POWER PLAN	

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